

## ABSTRACT OF THE DISCLOSURE

Provided are an apparatus and method for converting a pitch delay using linear prediction in speech transcoding. A linear interpolating portion linearly interpolates a closed-loop pitch delay decoded by a selected mode vocoder (SMV) speech decoder to make the closed-loop pitch delay fit in a search section for open-loop pitch delays of G.723.1 speech encoder, to obtain a changed closed-loop pitch delay of the SMV decoder. A predicted value calculating portion calculates a predicted pitch delay using linear prediction, based on past closed-loop pitch delays of the G.723.1 speech encoder. A difference calculating portion calculates a difference between the changed closed-loop pitch delay of the SMV speech decoder and the calculated predicted pitch delay. When the calculated difference is less than the predetermined threshold value, a pitch delay determining portion determines the changed closed-loop pitch delay of the SMV speech decoder to be an open-loop pitch delay of the G.723.1 speech encoder. A pitch delay detecting portion detects a closed-loop pitch delay of the G.723.1 speech encoder using a conventional method, based on the determined open-loop pitch delay of the G.723.1 speech encoder.